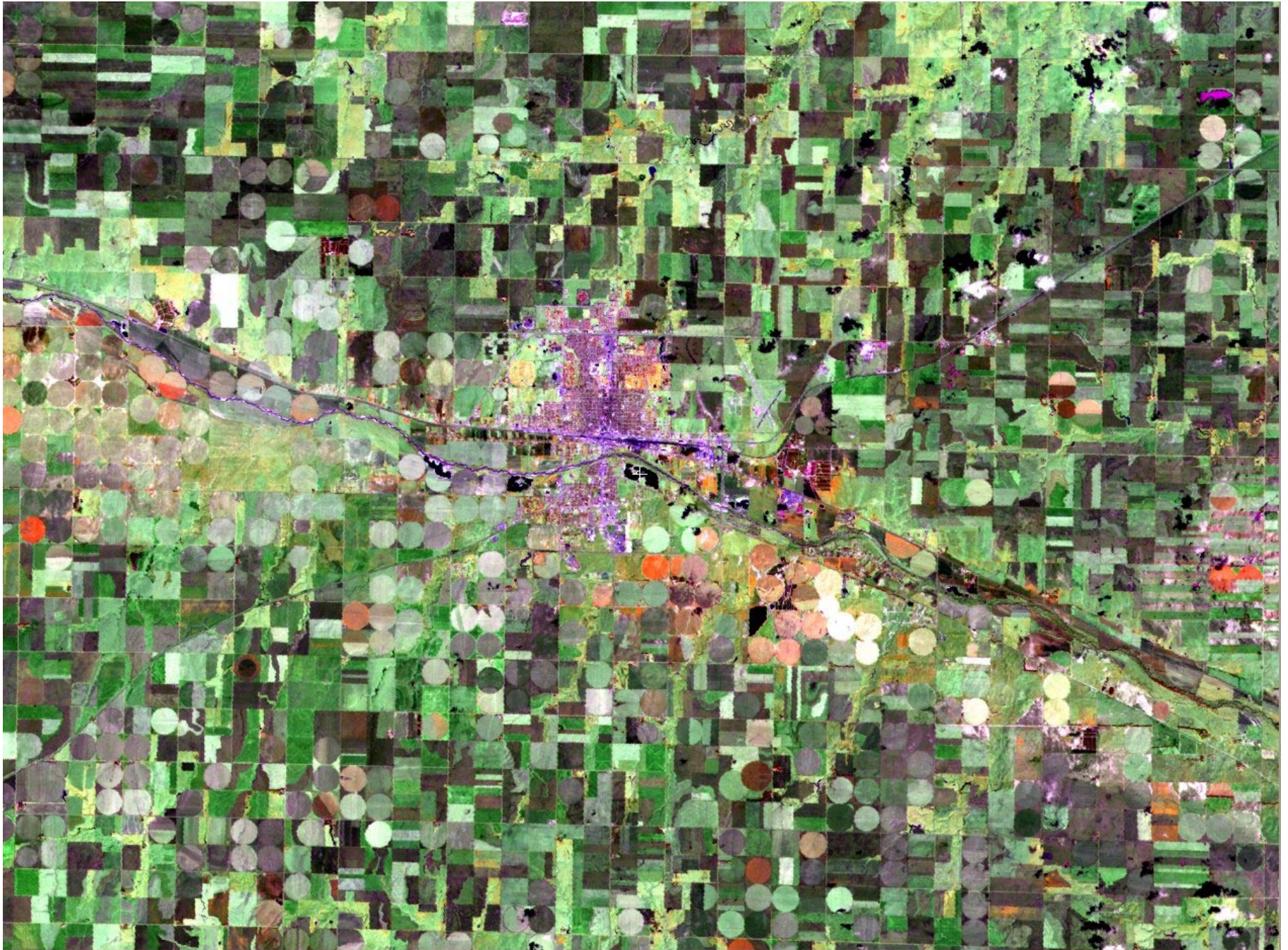


Southern Plains – Winter Wheat

- Analysis of satellite imagery and weather data from the Southern Plains of the U.S., indicates that the 2001 winter wheat crop is behind the last two years in development.
- Following are Landsat comparison images taken in March 2001, 2000, 1999 and 1998, from example locations in the Southern Plains (Kansas, Oklahoma, and Texas).
 - The red and orange tones on the satellite images are “actively growing” winter wheat, alfalfa fields and grasses. The maroon tones are dormant winter wheat, alfalfa fields and grasses.
- Temperature graphs, comparing February/March 1999, 2000 and 2001 data for several weather stations across the region are also included.
- While “planted area” is down for the 2001 crop compared to recent years, crop conditions are expected to be as good or better coming out of dormancy, due to generous late Fall 2000 and Winter 2001 precipitation. To date, winter-kill and freeze damage has not been a problem.

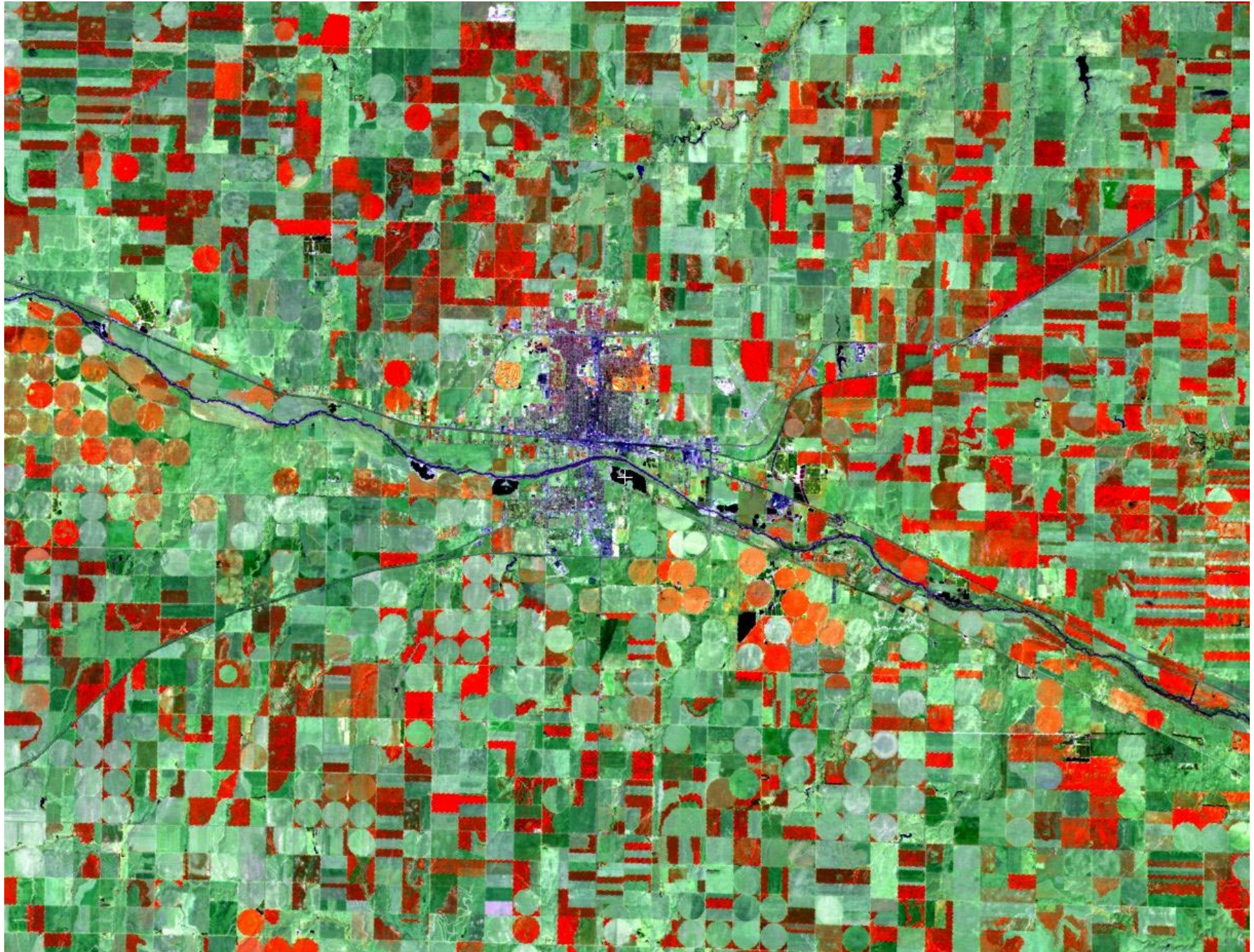
Dodge City, Kansas



Landsat TM 7, Ch. 4,5,3 = RGB

March 04, 2001

Dodge City, Kansas



Landsat TM 5, Ch. 4,5,3 = RGB

March 09, 2000

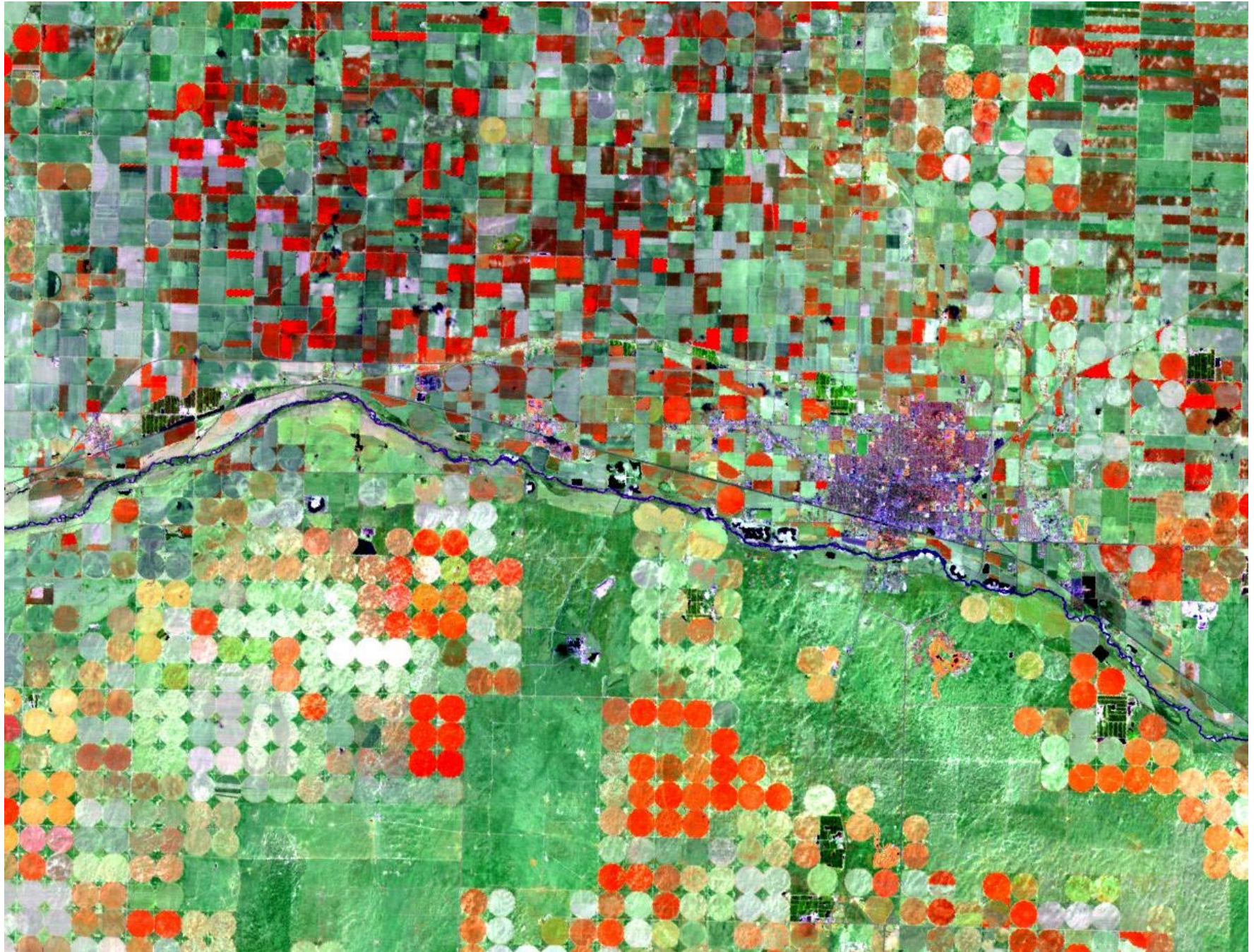
Garden City, Kansas



Landsat TM 7, Ch. 4,5,3 = RGB

March 04, 2001

Garden City, Kansas



Landsat TM 5, Ch. 4,5,3 = RGB

March 09, 2000

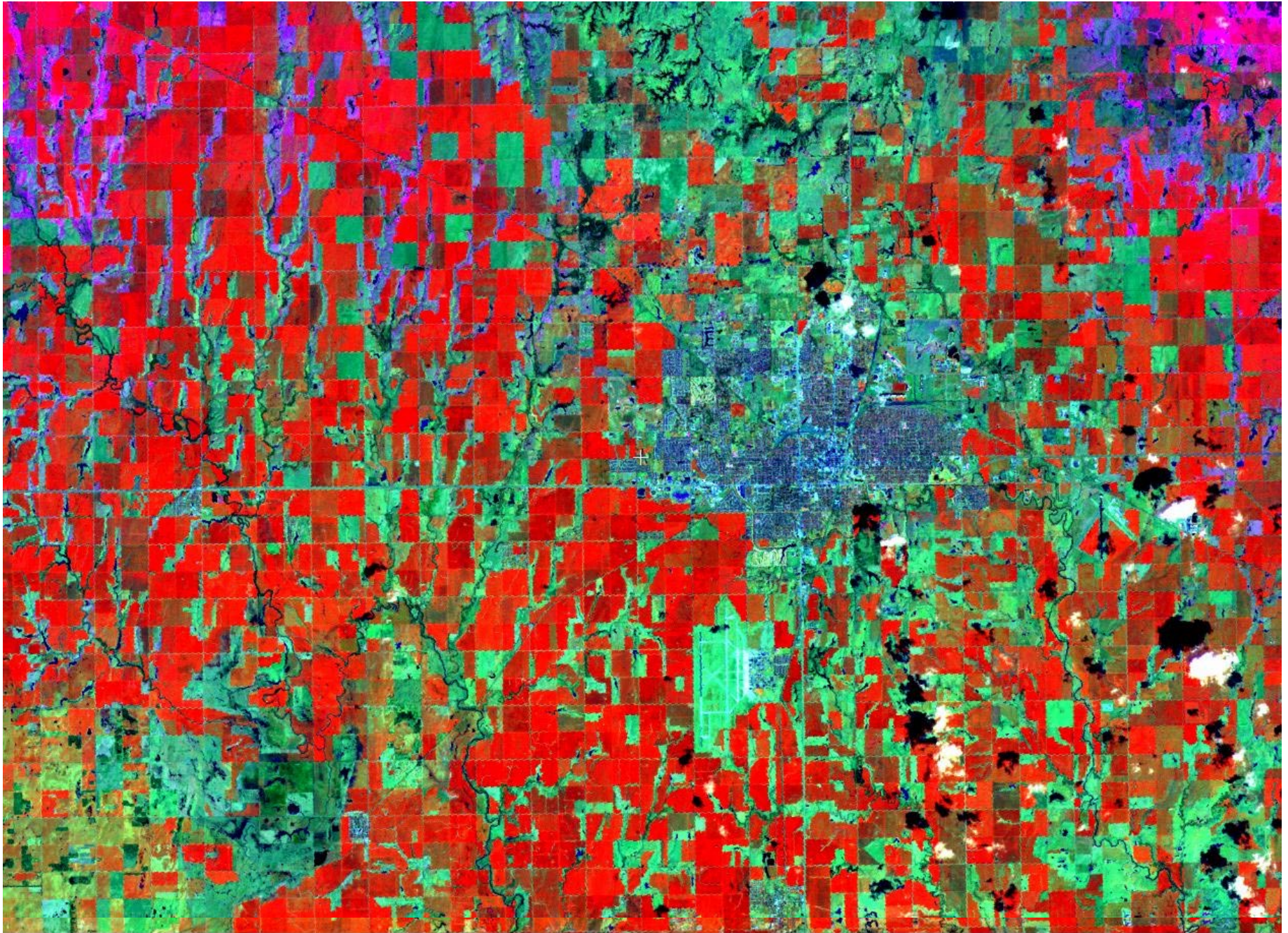
Enid, Oklahoma



Landsat TM 7, Ch. 4,5,3 = RGB

March 06, 2001

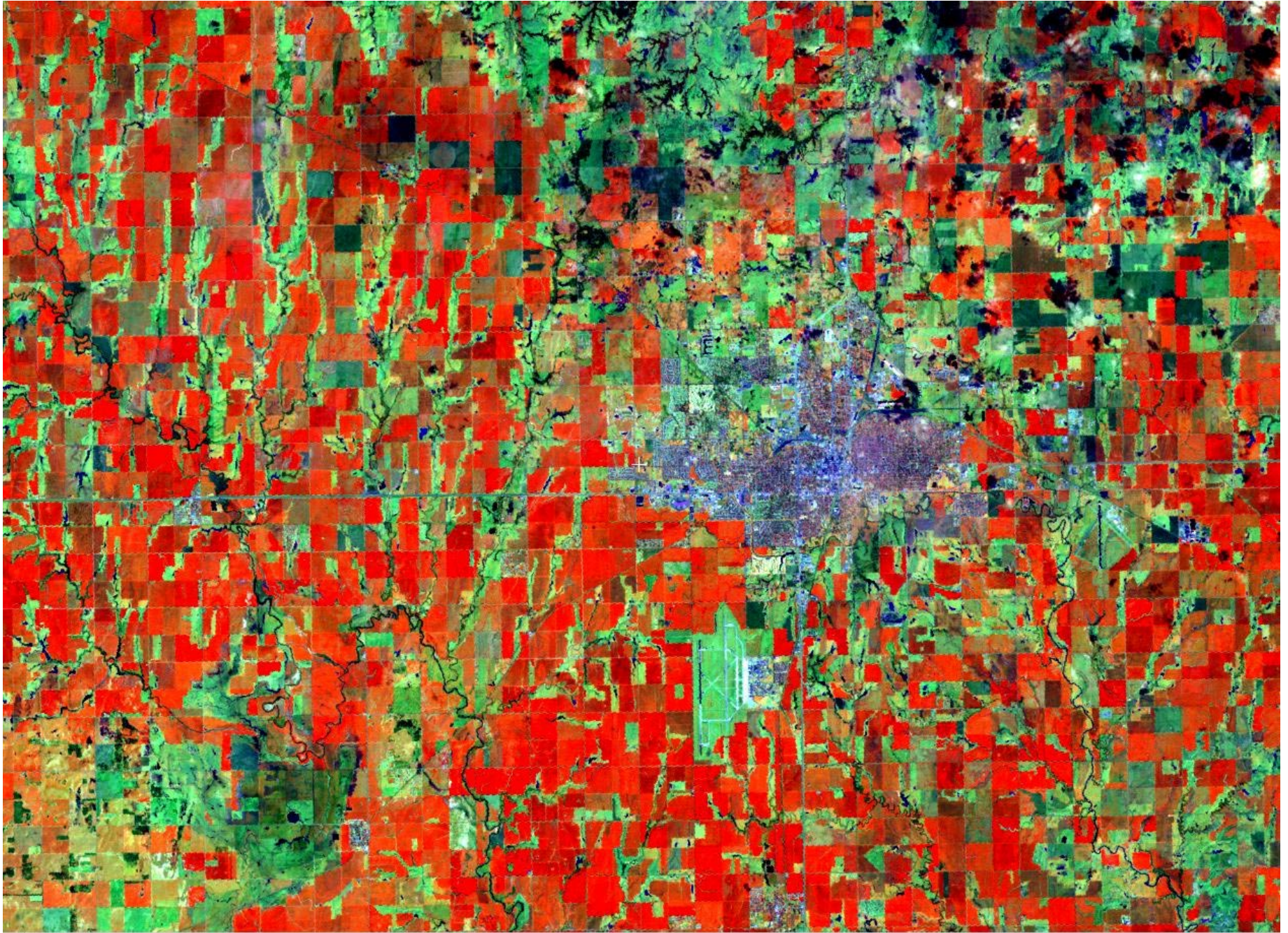
Enid, Oklahoma



Landsat TM 5, Ch. 4,5,3 = RGB

March 11, 2000

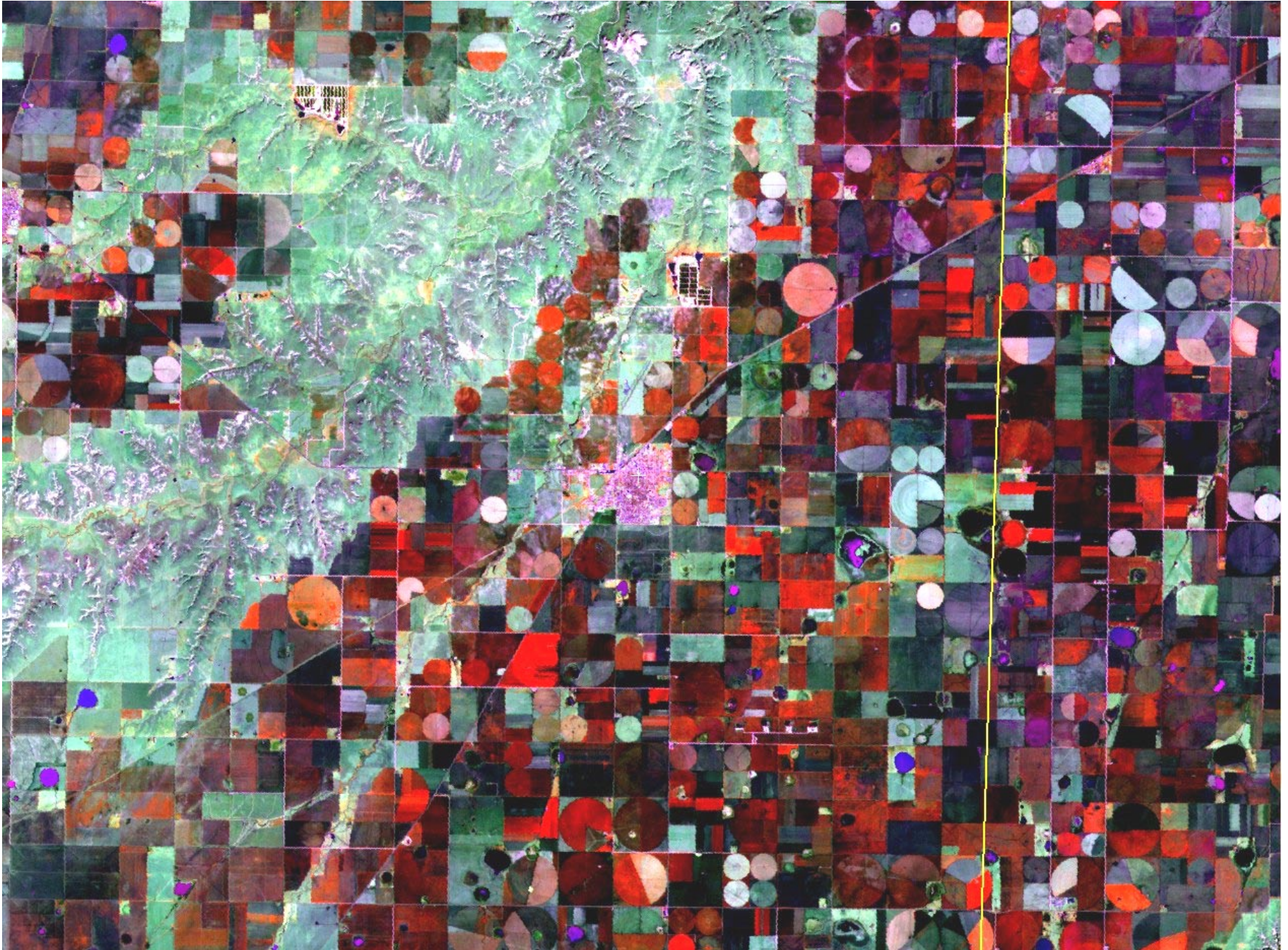
Enid, Oklahoma



Landsat TM 5, Ch. 4,5,3 = RGB

March 09, 1999

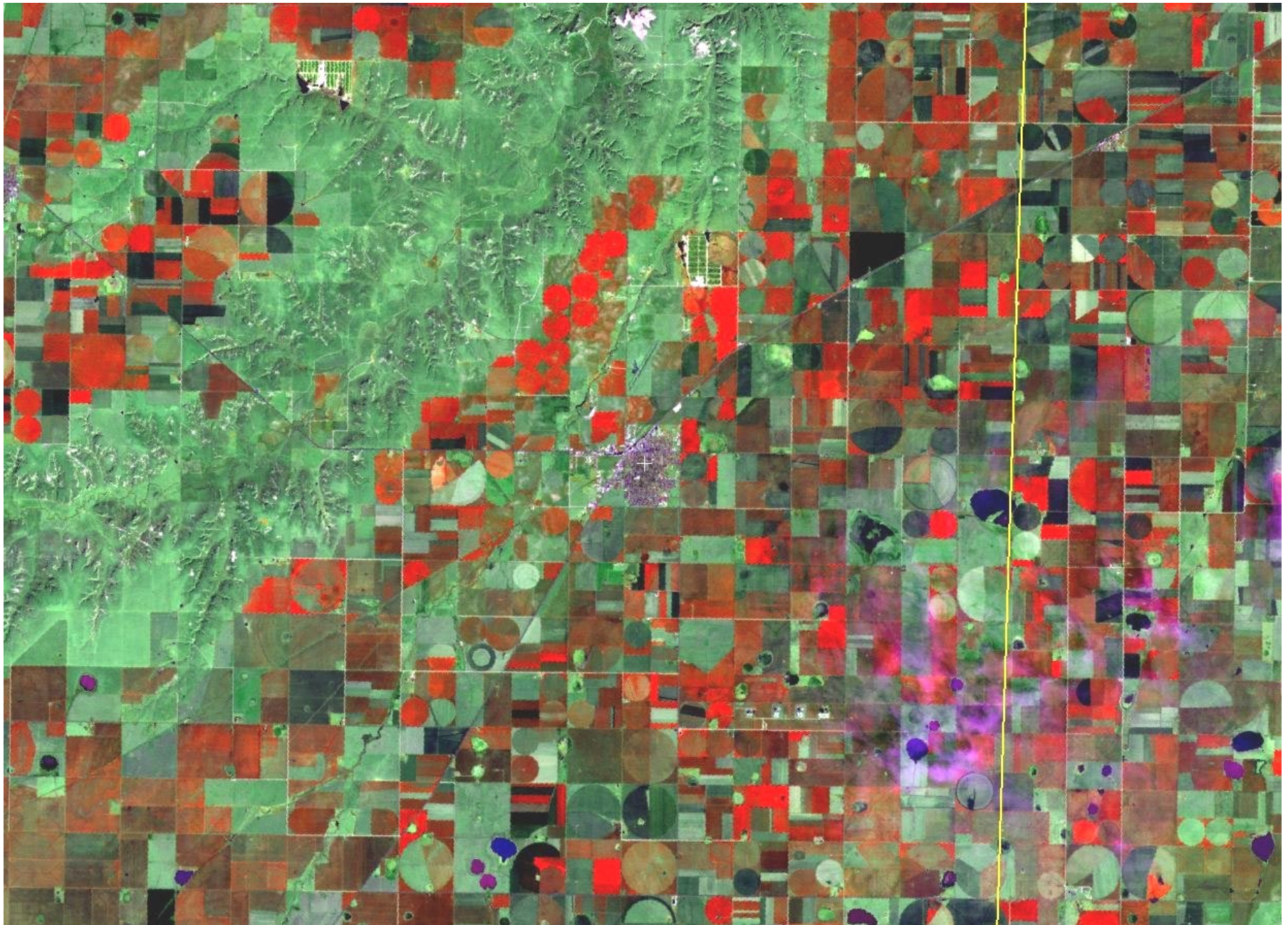
Spearman, Texas



Landsat TM 7, Ch. 4,5,3 = RGB

March 04, 2001

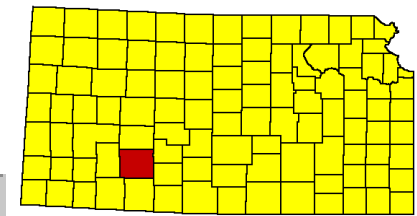
Spearman, Texas



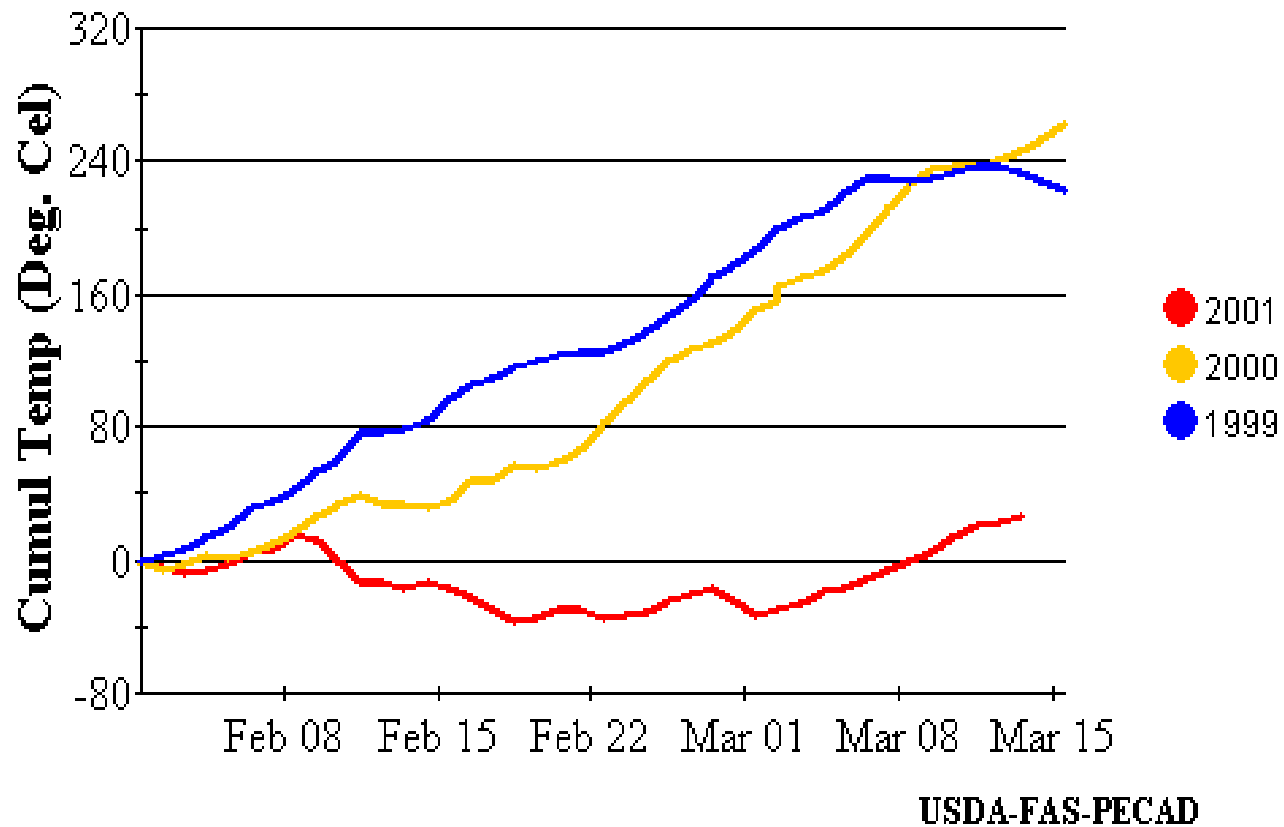
Landsat TM 5, Ch. 4,5,3 = RGB

March 04, 1998

Dodge City, Kansas



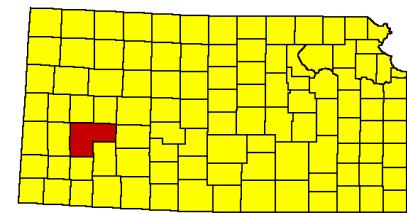
Dodge City, Kansas (72451)



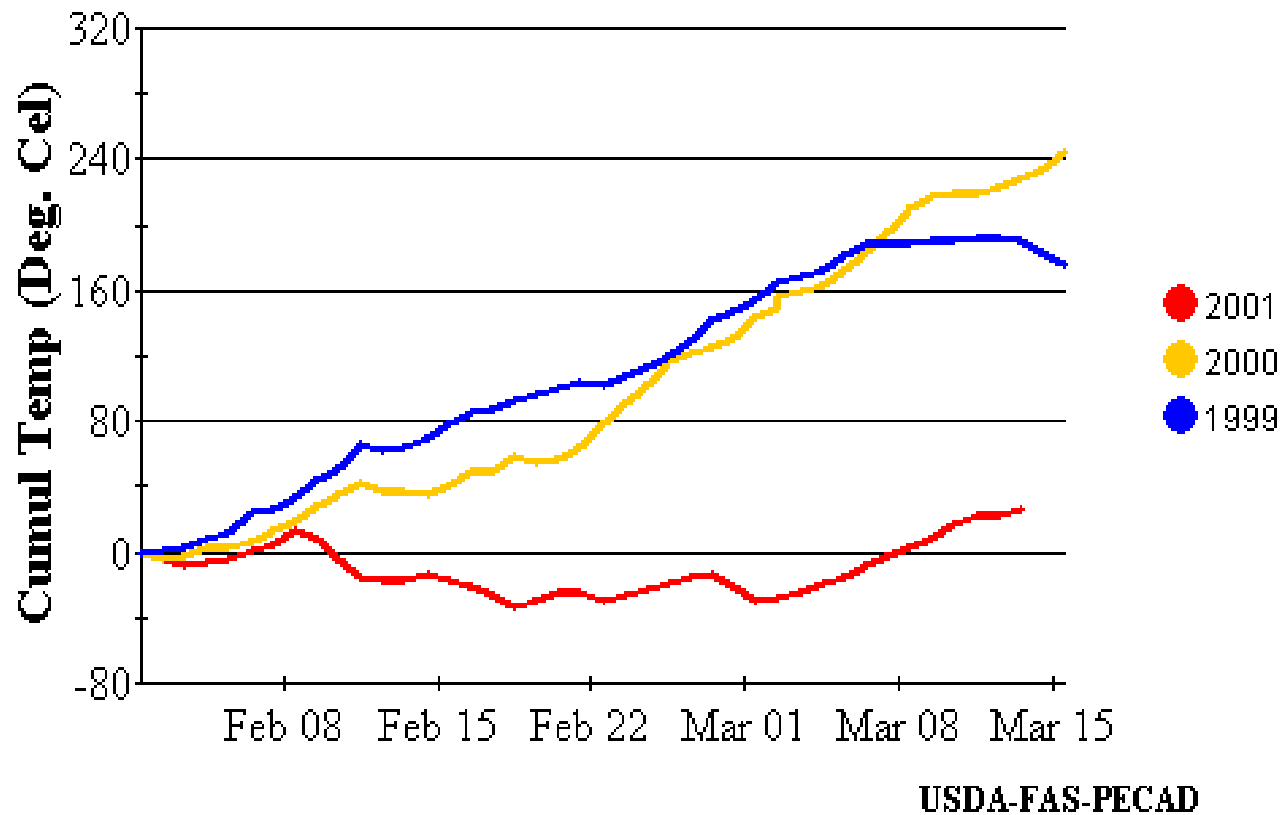
Data Source: WMO Station Data

Cumulative Temperature Comparison

Garden City, Kansas



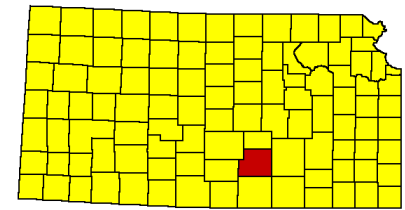
Garden City, Kansas (GCK)



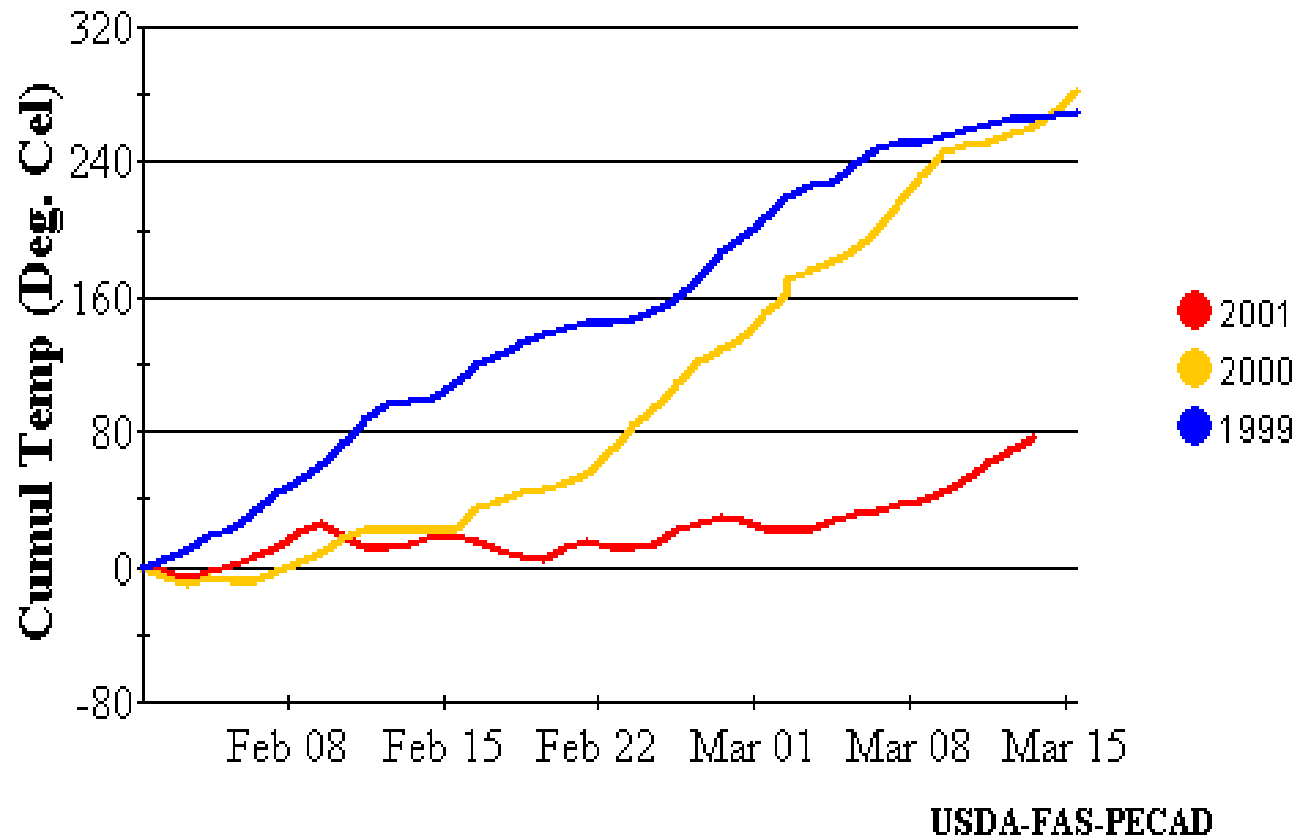
Data Source: WMO Station Data

Cumulative Temperature Comparison

Wichita, Kansas



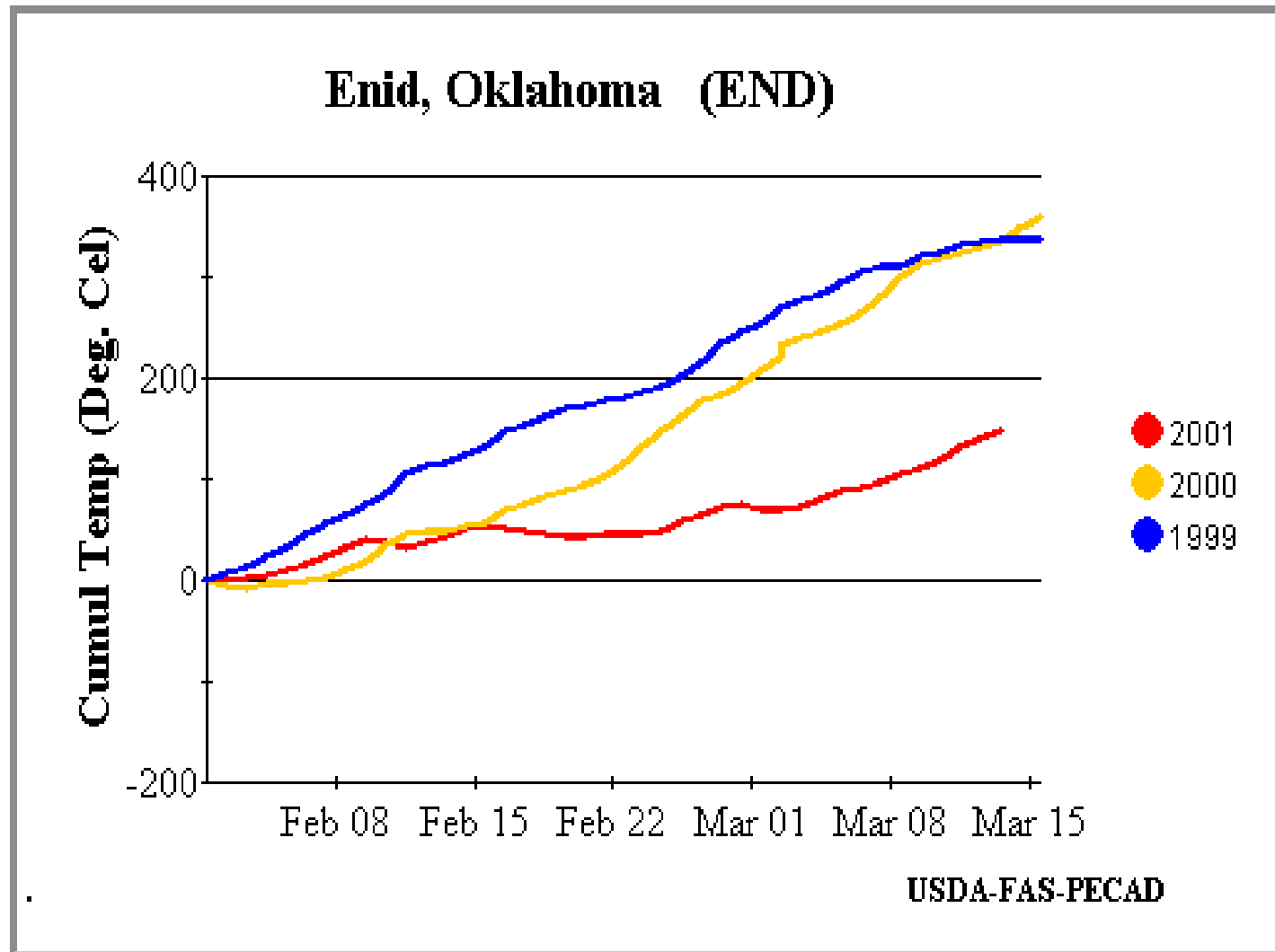
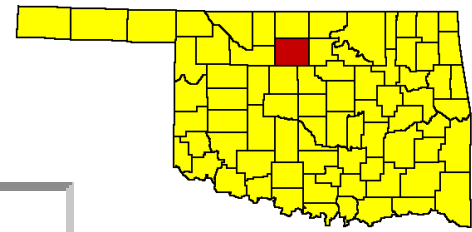
Wichita, Kansas (72450)



Data Source: WMO Station Data

Cumulative Temperature Comparison

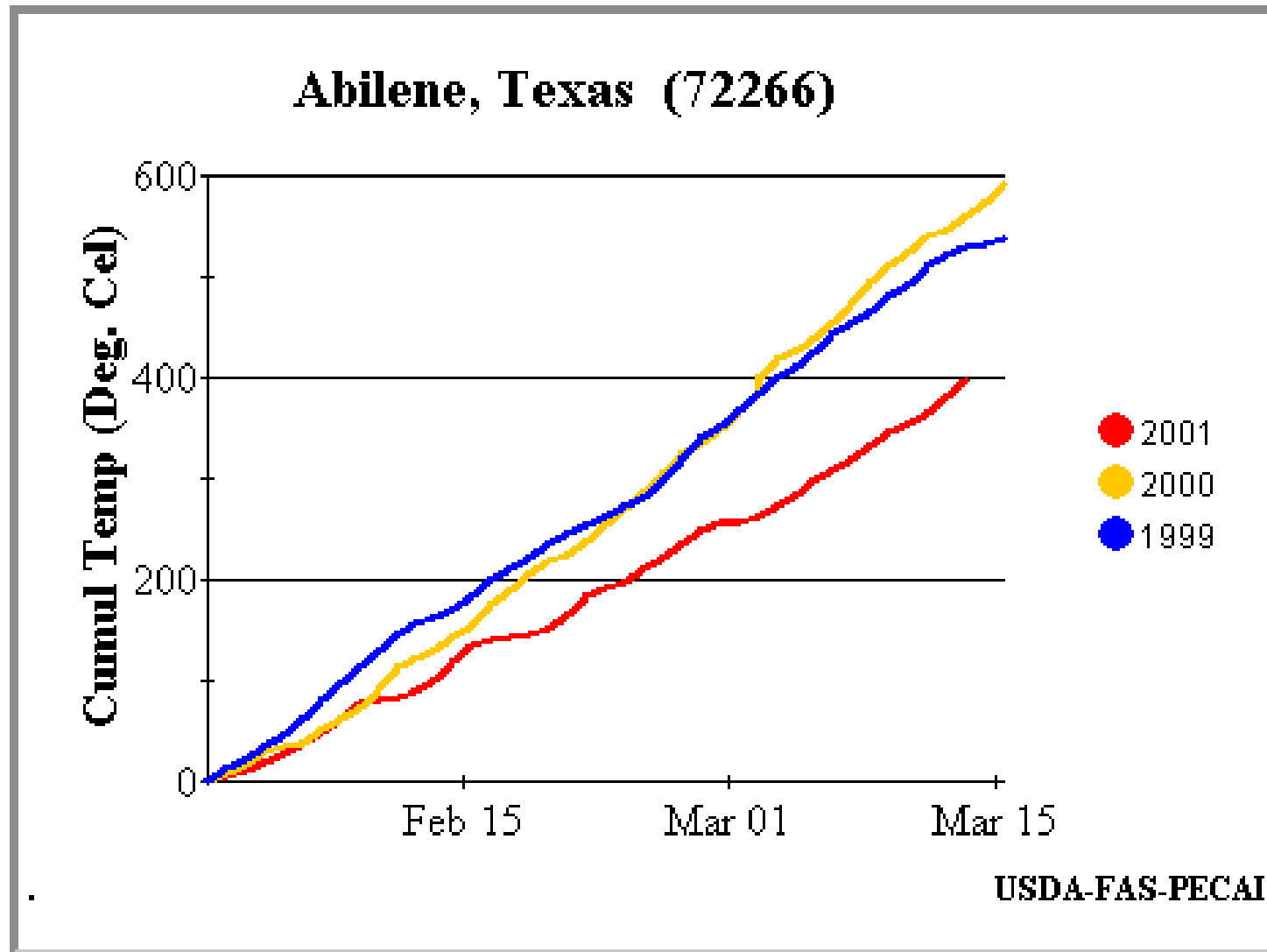
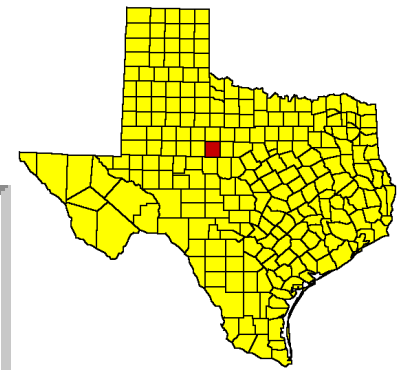
Enid, Oklahoma



Data Source: WMO Station Data

Cumulative Temperature Comparison

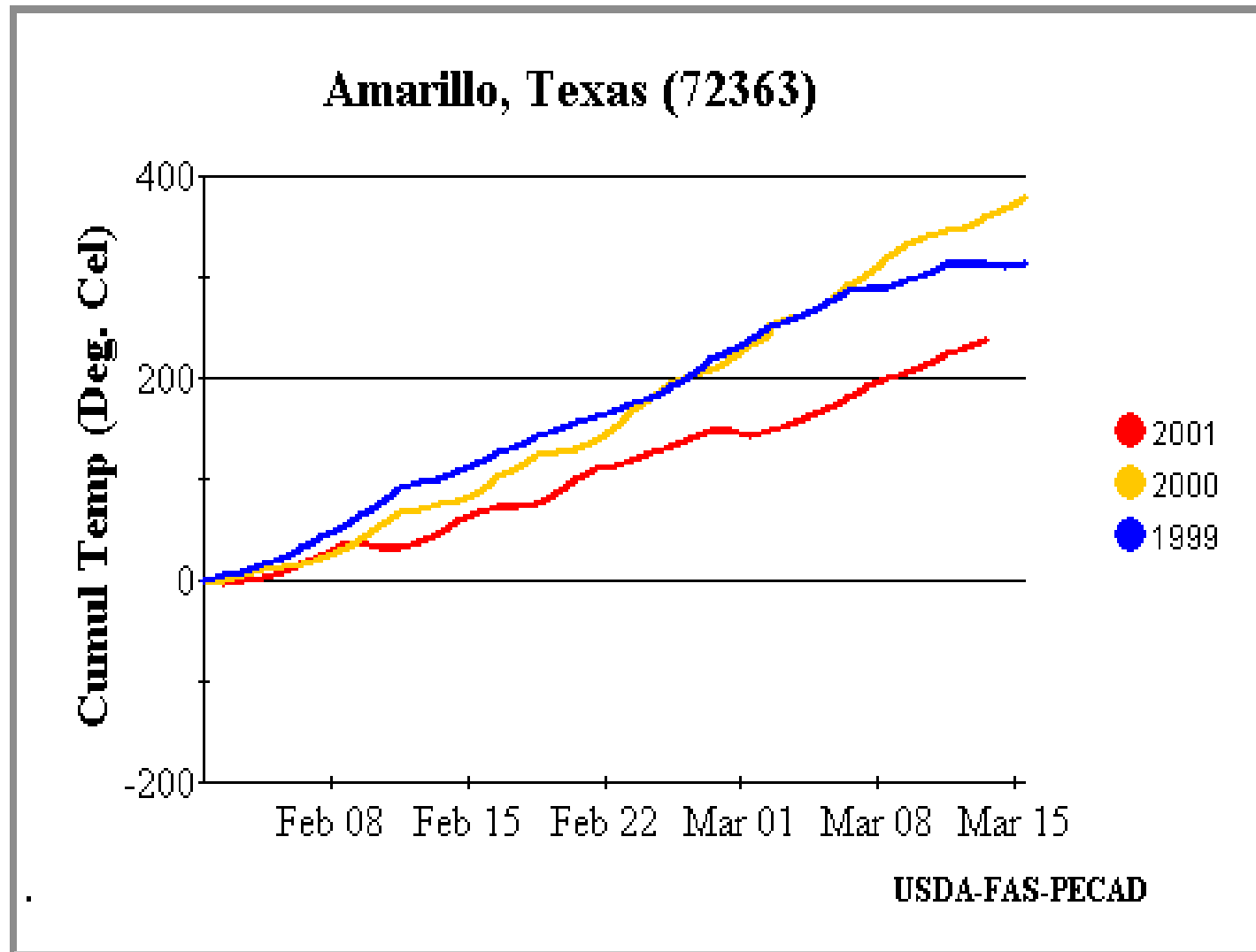
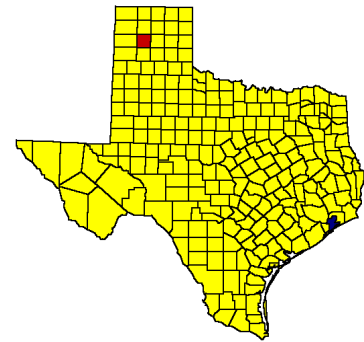
Abilene, Texas



Data Source: WMO Station Data

Cumulative Temperature Comparison

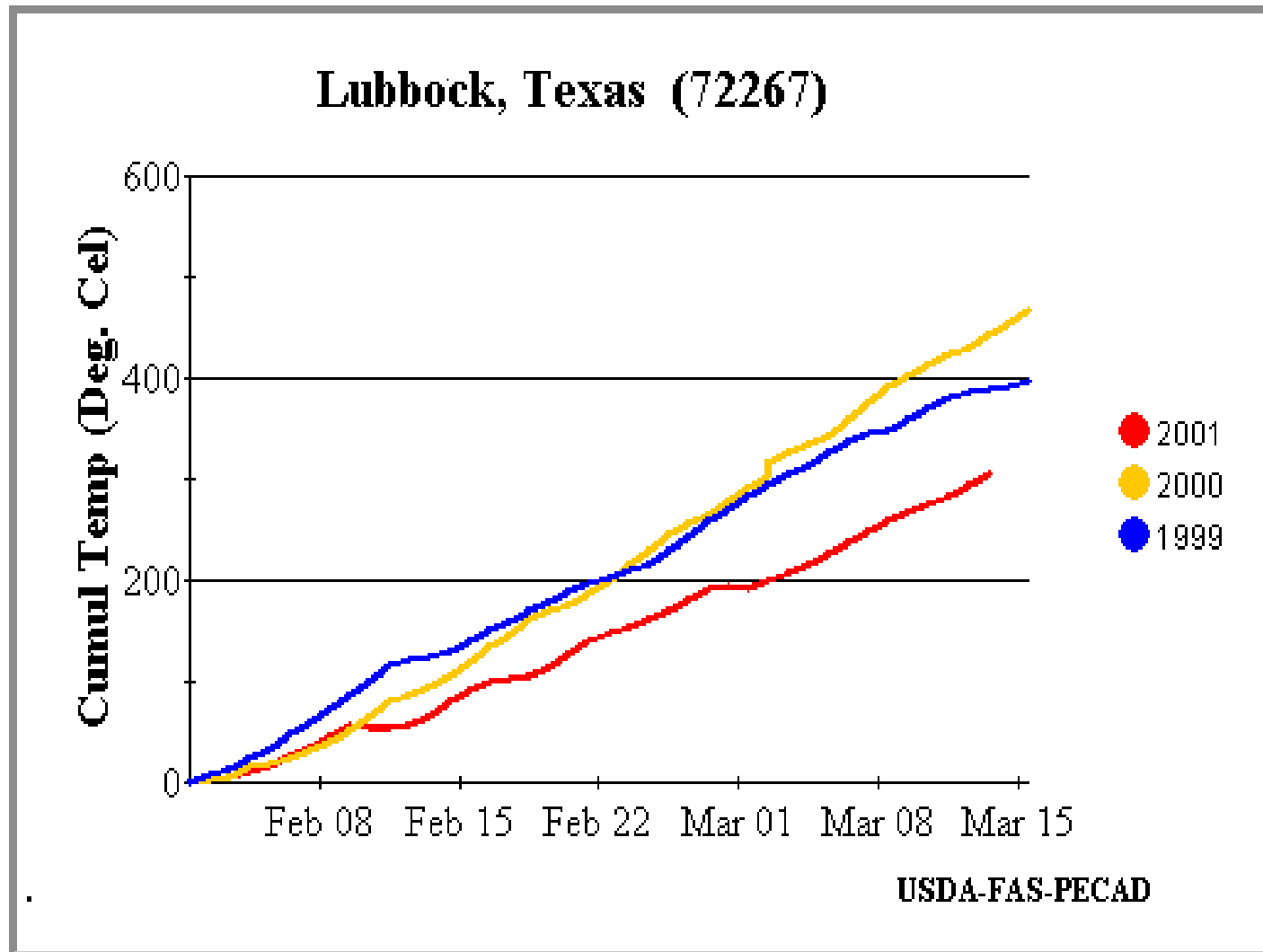
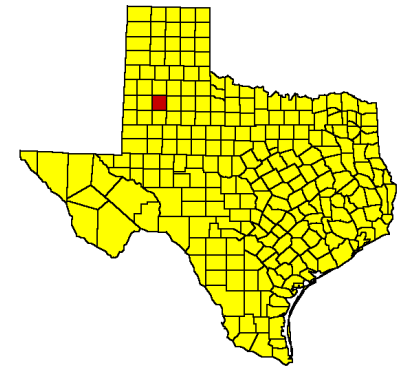
Amarillo, Texas



Data Source: WMO Station Data

Cumulative Temperature Comparison

Lubbock, Texas



Data Source: WMO Station Data

Cumulative Temperature Comparison